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Wed Nov 21 09:15:05 2001 BLASTN 2.2.1 [Jul-12-2001], NCBI  
Repeats masked (submitted below)  
/home/ruby/va/Molbio/carpenda/tempblast/ss.DNA59606 (2623 bp)

Sequences producing High-scoring Segment Pairs:	Frame	Score	Match
Pct E-val			
1 P_AAZ65056 Membrane-bound protein PRO1107 encoding	+	2623	2623
100 0.0			
2 P_AAS21469 Human cDNA sequence encoding for PRO1107	+	2623	2623
100 0.0			
3 P_AAF44202 Human PRO1107 (UNQ550) nucleotide sequen	+	2623	2623
100 0.0			
4 P_AAC58382 Human PRO1107 nucleotide sequence SEQ ID	+	2623	2623
100 0.0			
5 P_AAD12762 Human phosphodiesterase-1 (HPDE-1) cDNA.	+	2314	2350
100 0.0			
6 AX206904 Sequence 4 from Patent WO0155358. DNA,	+	2314	2350
100 0.0			

>1 P\_AAZ65056 Membrane-bound protein PRO1107 encoding cDNA. (2623 bp) [1 seg]

Score = 2623. (5200 bits), Expect = 0.0

Identities = 2623/2623 (100%), at 1,1-2623,2623, Strand +/-

ss.DNA59606 1  
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT

\*\*\*\*\*  
P\_AAZ65056 1  
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT

ss.DNA59606 61  
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

\*\*\*\*\*  
P\_AAZ65056 61  
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606 121  
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

\*\*\*\*\*  
P\_AAZ65056 121  
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

ss.DNA59606 181  
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

\*\*\*\*\*  
P\_AAZ65056 181  
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

ss.DNA59606 241  
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

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P\_AAZ65056 241

BLAST RESULTS A-2

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AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC
ss.DNA59606 301
ACCTTTTCTCTCCAAGTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT
*****
P_AAZ65056 301
ACCTTTTCTCTCCAAGTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

ss.DNA59606 361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT
*****
P_AAZ65056 361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT

ss.DNA59606 421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAAACCTACCCTAACCATTATACTTTG
*****
P_AAZ65056 421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAAACCTACCCTAACCATTATACTTTG

ss.DNA59606 481
GTAAGTGGCTCTTTCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT
*****
P_AAZ65056 481
GTAAGTGGCTCTTTCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

ss.DNA59606 541
CGGAACAAATCTTTCTCCTTGGATCAGATGAATATTTATGATTCCAAGTTTGGGAAGAA
*****
P_AAZ65056 541
CGGAACAAATCTTTCTCCTTGGATCAGATGAATATTTATGATTCCAAGTTTGGGAAGAA

ss.DNA59606 601
GCGACACCAATATGGATCACAACAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG
*****
P_AAZ65056 601
GCGACACCAATATGGATCACAACAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

ss.DNA59606 661
CCCGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG
*****
P_AAZ65056 661
CCCGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

ss.DNA59606 721
TCAGTTTCATTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC
*****
P_AAZ65056 721
TCAGTTTCATTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC

ss.DNA59606 781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

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BLAST RESULTS A-2

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*****
P_AAZ65056      781
ATAAATCTTGGTCTTCTCTATTGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

ss.DNA59606      841
GACAGTCCGCTCATGGGGCCTGTCATTTTCAGATATTGACAAGAAGTTAGGATATCTCATA

*****
P_AAZ65056      841
GACAGTCCGCTCATGGGGCCTGTCATTTTCAGATATTGACAAGAAGTTAGGATATCTCATA

ss.DNA59606      901
CAAATGCTGAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

*****
P_AAZ65056      901
CAAATGCTGAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

ss.DNA59606      961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

*****
P_AAZ65056      961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

ss.DNA59606     1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

*****
P_AAZ65056     1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

ss.DNA59606     1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA

*****
P_AAZ65056     1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA

ss.DNA59606     1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

*****
P_AAZ65056     1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

ss.DNA59606     1201
GCTGATGAAGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

*****
P_AAZ65056     1201
GCTGATGAAGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

ss.DNA59606     1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTTAGCCCATGGTCCTGCCTTC

*****
P_AAZ65056     1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTTAGCCCATGGTCCTGCCTTC

ss.DNA59606     1321

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BLAST RESULTS A-3

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AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC
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P_AAZ65056 1321
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

ss.DNA59606 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC
*****
P_AAZ65056 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

ss.DNA59606 1441
AATTTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT
*****
P_AAZ65056 1441
AATTTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

ss.DNA59606 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT
*****
P_AAZ65056 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

ss.DNA59606 1561
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA
*****
P_AAZ65056 1561
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

ss.DNA59606 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT
*****
P_AAZ65056 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

ss.DNA59606 1681
TACTTTGAAGTGGATTGTCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG
*****
P_AAZ65056 1681
TACTTTGAAGTGGATTGTCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

ss.DNA59606 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAAGCAGTTACATAT
*****
P_AAZ65056 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAAGCAGTTACATAT

ss.DNA59606 1801
TTAGGTATACACACACACACACACACATACACACACACGGACCAAATACTTACAC
*****
P_AAZ65056 1801
TTAGGTATACACACACACACACACACACATACACACACACGGACCAAATACTTACAC

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BLAST RESULTS A-4

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ss.DNA59606 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA
*****
P_AAZ65056 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

ss.DNA59606 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT
*****
P_AAZ65056 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

ss.DNA59606 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA
*****
P_AAZ65056 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

ss.DNA59606 2041
AATGCACTTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC
*****
P_AAZ65056 2041
AATGCACTTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

ss.DNA59606 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA
*****
P_AAZ65056 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

ss.DNA59606 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTGTA
*****
P_AAZ65056 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTGTA

ss.DNA59606 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT
*****
P_AAZ65056 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

ss.DNA59606 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTT
*****
P_AAZ65056 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTT

ss.DNA59606 2341
CCCTCAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA
*****

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BLAST RESULTS A-S

P\_AAZ65056 2341  
CCCTCAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

ss.DNA59606 2401  
ATTATTGTGATTTCTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

\*\*\*\*\*

P\_AAZ65056 2401  
ATTATTGTGATTTCTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

ss.DNA59606 2461  
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

\*\*\*\*\*

P\_AAZ65056 2461  
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

ss.DNA59606 2521  
CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

\*\*\*\*\*

P\_AAZ65056 2521  
CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

ss.DNA59606 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA  
\*\*\*\*\*

P\_AAZ65056 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA

>2 P\_AAS21469 Human cDNA sequence encoding for PRO1107 polypeptide.  
(2623 bp) [1 seg]  
Score = 2623 (5200 bits), Expect = 0.0  
Identities = 2623/2623 (100%), at 1,1-2623,2623, Strand +/-

ss.DNA59606 1  
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCCTCCCGCCGT

\*\*\*\*\*

P\_AAS21469 1  
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCCTCCCGCCGT

ss.DNA59606 61  
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

\*\*\*\*\*

P\_AAS21469 61  
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606 121  
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

\*\*\*\*\*

P\_AAS21469 121  
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

ss.DNA59606 181  
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

\*\*\*\*\*

P\_AAS21469 181  
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

BLAST RESULTS A-U

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ss.DNA59606   241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

*****
P_AAS21469    241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

ss.DNA59606   301
ACCTTTTCTCTCCAAC TAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

*****
P_AAS21469    301
ACCTTTTCTCTCCAAC TAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

ss.DNA59606   361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGT

*****
P_AAS21469    361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGT

ss.DNA59606   421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAACCTACCCTAACCATTATACTTTG

*****
P_AAS21469    421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAACCTACCCTAACCATTATACTTTG

ss.DNA59606   481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

*****
P_AAS21469    481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

ss.DNA59606   541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

*****
P_AAS21469    541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

ss.DNA59606   601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

*****
P_AAS21469    601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

ss.DNA59606   661
CCCGGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

*****
P_AAS21469    661
CCCGGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

ss.DNA59606   721
TCAGTTTCATTTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC

*****
P_AAS21469    721

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BLAST RESULTS A-7

TCAGTTTCATTTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAAAGAGCCC

ss.DNA59606 781  
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

\*\*\*\*\*

P\_AAS21469 781  
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

ss.DNA59606 841  
GACAGTCCGCTCATGGGGCCTGTCATTTGAGATATTGACAAGAAGTTAGGATATCTCATA

\*\*\*\*\*

P\_AAS21469 841  
GACAGTCCGCTCATGGGGCCTGTCATTTGAGATATTGACAAGAAGTTAGGATATCTCATA

ss.DNA59606 901  
CAAATGCTGAAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

\*\*\*\*\*

P\_AAS21469 901  
CAAATGCTGAAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

ss.DNA59606 961  
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

\*\*\*\*\*

P\_AAS21469 961  
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

ss.DNA59606 1021  
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

\*\*\*\*\*

P\_AAS21469 1021  
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

ss.DNA59606 1081  
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA

\*\*\*\*\*

P\_AAS21469 1081  
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA

ss.DNA59606 1141  
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

\*\*\*\*\*

P\_AAS21469 1141  
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

ss.DNA59606 1201  
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

\*\*\*\*\*

P\_AAS21469 1201  
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

ss.DNA59606 1261  
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTAGCCCATGGTCCTGCCTTC

Blast Results A-8



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*****
P_AAS21469 1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTAGCCCATGGTCCTGCCTTC

ss.DNA59606 1321
AGAAAGAATTTCTCAAAAGAAGCCATGAACTCCACAGATTGTACCCACTACTATGCCAC

*****
P_AAS21469 1321
AGAAAGAATTTCTCAAAAGAAGCCATGAACTCCACAGATTGTACCCACTACTATGCCAC

ss.DNA59606 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

*****
P_AAS21469 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

ss.DNA59606 1441
AATTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

*****
P_AAS21469 1441
AATTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

ss.DNA59606 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTCATAGGGGTCTCTCTT

*****
P_AAS21469 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTCATAGGGGTCTCTCTT

ss.DNA59606 1561
GGCAGCATTATAGTGATTGTATTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

*****
P_AAS21469 1561
GGCAGCATTATAGTGATTGTATTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

ss.DNA59606 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

*****
P_AAS21469 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

ss.DNA59606 1681
TACTTTGAAGTGGATTTCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

*****
P_AAS21469 1681
TACTTTGAAGTGGATTTCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

ss.DNA59606 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

*****
P_AAS21469 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

ss.DNA59606 1801

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BLAST RESULTS A-9

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TTAGGTATACACACACACACACACACACACATACACACACACGACCAAATACTTACAC
*****
P_AAS21469 1801
TTAGGTATACACACACACACACACACACACATACACACACACGACCAAATACTTACAC

ss.DNA59606 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA
*****
P_AAS21469 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

ss.DNA59606 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT
*****
P_AAS21469 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

ss.DNA59606 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA
*****
P_AAS21469 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

ss.DNA59606 2041
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC
*****
P_AAS21469 2041
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

ss.DNA59606 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA
*****
P_AAS21469 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

ss.DNA59606 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA
*****
P_AAS21469 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

ss.DNA59606 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT
*****
P_AAS21469 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

ss.DNA59606 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT
*****
P_AAS21469 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT

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BLAST RESULTS A10

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ss.DNA59606 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA
*****
P_AAS21469 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

ss.DNA59606 2401
ATTATTGTGATTTCTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT
*****
P_AAS21469 2401
ATTATTGTGATTTCTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

ss.DNA59606 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT
*****
P_AAS21469 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

ss.DNA59606 2521
CTCAGCAATGTTTTCTCTTGTGTAATTATTGCTCCTTTGAAAATTAAATCACTATTA
*****
P_AAS21469 2521
CTCAGCAATGTTTTCTCTTGTGTAATTATTGCTCCTTTGAAAATTAAATCACTATTA

ss.DNA59606 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA
*****
P_AAS21469 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA

>3 P_AAF44202 Human PRO1107 (UNQ550) nucleotide sequence SEQ ID NO:284.
(2623 bp) [1 seg]
Score = 2623 (5200 bits), Expect = 0.0
Identities = 2623/2623 (100%), at 1,1-2623,2623, Strand +/-

ss.DNA59606 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT
*****
P_AAF44202 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT

ss.DNA59606 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA
*****
P_AAF44202 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606 121
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG
*****
P_AAF44202 121
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

ss.DNA59606 181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

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BLAST RESULTS A-11

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*****
P_AAF44202      181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

ss.DNA59606      241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

*****
P_AAF44202      241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

ss.DNA59606      301
ACCTTTTCTCTCCAAGTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

*****
P_AAF44202      301
ACCTTTTCTCTCCAAGTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

ss.DNA59606      361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT

*****
P_AAF44202      361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT

ss.DNA59606      421
CACGTGAAGCAAGTTACTAATGTTTTTATTACAAAACCTACCCTAACCATTATACTTTG

*****
P_AAF44202      421
CACGTGAAGCAAGTTACTAATGTTTTTATTACAAAACCTACCCTAACCATTATACTTTG

ss.DNA59606      481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

*****
P_AAF44202      481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

ss.DNA59606      541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

*****
P_AAF44202      541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

ss.DNA59606      601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

*****
P_AAF44202      601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

ss.DNA59606      661
CCCGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

*****
P_AAF44202      661
CCCGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

```

BLAST RESULTS A-12

```

ss.DNA59606 721
TCAGTTTCATTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC
*****
P_AAF44202 721
TCAGTTTCATTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC

ss.DNA59606 781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT
*****
P_AAF44202 781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

ss.DNA59606 841
GACAGTCCGCTCATGGGGCCTGTCATTTAGATATTGACAAGAAGTTAGGATATCTCATA
*****
P_AAF44202 841
GACAGTCCGCTCATGGGGCCTGTCATTTAGATATTGACAAGAAGTTAGGATATCTCATA

ss.DNA59606 901
CAAATGCTGAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT
*****
P_AAF44202 901
CAAATGCTGAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

ss.DNA59606 961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC
*****
P_AAF44202 961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

ss.DNA59606 1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT
*****
P_AAF44202 1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

ss.DNA59606 1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA
*****
P_AAF44202 1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA

ss.DNA59606 1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG
*****
P_AAF44202 1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

ss.DNA59606 1201
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC
*****
P_AAF44202 1201

```

BLAST RESULTS A-13

GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

ss.DNA59606 1261  
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTATAGCCCATGGTCCTGCCTTC

\*\*\*\*\*

P\_AAF44202 1261  
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTATAGCCCATGGTCCTGCCTTC

ss.DNA59606 1321  
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

\*\*\*\*\*

P\_AAF44202 1321  
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

ss.DNA59606 1381  
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

\*\*\*\*\*

P\_AAF44202 1381  
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

ss.DNA59606 1441  
AATTTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

\*\*\*\*\*

P\_AAF44202 1441  
AATTTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

ss.DNA59606 1501  
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

\*\*\*\*\*

P\_AAF44202 1501  
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

ss.DNA59606 1561  
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

\*\*\*\*\*

P\_AAF44202 1561  
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

ss.DNA59606 1621  
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

\*\*\*\*\*

P\_AAF44202 1621  
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

ss.DNA59606 1681  
TACTTTGAAGTGGATTTGCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

\*\*\*\*\*

P\_AAF44202 1681  
TACTTTGAAGTGGATTTGCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

ss.DNA59606 1741  
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAAGCAGTTACATAT

BLAST RESULTS A-K

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*****
P_AAF44202 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

ss.DNA59606 1801
TTAGGTATACACACACACACACACACACATACACACACACGGACCAAATACTTACAC

*****
P_AAF44202 1801
TTAGGTATACACACACACACACACACACATACACACACACGGACCAAATACTTACAC

ss.DNA59606 1861
CTGCAAAGGAATAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

*****
P_AAF44202 1861
CTGCAAAGGAATAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

ss.DNA59606 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

*****
P_AAF44202 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

ss.DNA59606 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

*****
P_AAF44202 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

ss.DNA59606 2041
AATGCACTTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

*****
P_AAF44202 2041
AATGCACTTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

ss.DNA59606 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

*****
P_AAF44202 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

ss.DNA59606 2161
ATAATGAACATAGAAATCTATCTCCATAAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

*****
P_AAF44202 2161
ATAATGAACATAGAAATCTATCTCCATAAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

ss.DNA59606 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

*****
P_AAF44202 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

ss.DNA59606 2281

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BUST RESULTS A-15

```
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT
*****
P_AAF44202 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT

ss.DNA59606 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA
*****
P_AAF44202 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

ss.DNA59606 2401
ATTATTGTGATTTCTTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT
*****
P_AAF44202 2401
ATTATTGTGATTTCTTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

ss.DNA59606 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT
*****
P_AAF44202 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

ss.DNA59606 2521
CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA
*****
P_AAF44202 2521
CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

ss.DNA59606 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA
*****
P_AAF44202 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA

>4 P_AAC58382 Human PRO1107 nucleotide sequence SEQ ID NO:43. (2623 bp)
[1 seg]
Score = 2623 (5200 bits), Expect = 0.0
Identities = 2623/2623 (100%), at 1,1-2623,2623, Strand +/-

ss.DNA59606 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT
*****
P_AAC58382 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT

ss.DNA59606 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA
*****
P_AAC58382 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606 121
TACGGAAGTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG
*****
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P_AAC58382      121
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

ss.DNA59606     181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

*****
P_AAC58382      181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

ss.DNA59606     241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

*****
P_AAC58382      241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

ss.DNA59606     301
ACCTTTTCTCTCCAACCTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

*****
P_AAC58382      301
ACCTTTTCTCTCCAACCTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

ss.DNA59606     361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGT

*****
P_AAC58382      361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGT

ss.DNA59606     421
CACGTGAAGCAAGTTACTAATGTTTTTATTACAAAACCTACCCTAACCATTATACTTTG

*****
P_AAC58382      421
CACGTGAAGCAAGTTACTAATGTTTTTATTACAAAACCTACCCTAACCATTATACTTTG

ss.DNA59606     481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

*****
P_AAC58382      481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

ss.DNA59606     541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

*****
P_AAC58382      541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

ss.DNA59606     601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

*****
P_AAC58382      601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

ss.DNA59606     661
CCCGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

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BLAST RESULTS A-17

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*****
P_AAC58382      661
CCCGGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

ss.DNA59606      721
TCAGTTTCATTTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC

*****
P_AAC58382      721
TCAGTTTCATTTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC

ss.DNA59606      781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGTTGGACCT

*****
P_AAC58382      781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGTTGGACCT

ss.DNA59606      841
GACAGTCCGCTCATGGGGCCTGTCATTTTCAGATATTGACAAGAAGTTAGGATATCTCATA

*****
P_AAC58382      841
GACAGTCCGCTCATGGGGCCTGTCATTTTCAGATATTGACAAGAAGTTAGGATATCTCATA

ss.DNA59606      901
CAAATGCTGAAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

*****
P_AAC58382      901
CAAATGCTGAAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

ss.DNA59606      961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

*****
P_AAC58382      961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

ss.DNA59606     1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

*****
P_AAC58382     1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

ss.DNA59606     1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAAGAA

*****
P_AAC58382     1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAAGAA

ss.DNA59606     1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

*****
P_AAC58382     1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

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BLAST RESULTS A-19

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ss.DNA59606 1201
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

*****
P_AAC58382 1201
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

ss.DNA59606 1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTATAGCCCATGGTCCTGCCTTC

*****
P_AAC58382 1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTATAGCCCATGGTCCTGCCTTC

ss.DNA59606 1321
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

*****
P_AAC58382 1321
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

ss.DNA59606 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

*****
P_AAC58382 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

ss.DNA59606 1441
AATTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

*****
P_AAC58382 1441
AATTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

ss.DNA59606 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

*****
P_AAC58382 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

ss.DNA59606 1561
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

*****
P_AAC58382 1561
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

ss.DNA59606 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

*****
P_AAC58382 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

ss.DNA59606 1681
TACTTTGAAGTGGAATTTGCATATTGAAGTGAGATTCCATAATTATGTCAGTGTTTAAAG

*****
P_AAC58382 1681

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BLAST RESULTS A-19

TACTTTGAAGTGGATTTGCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

ss.DNA59606 1741  
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

\*\*\*\*\*

P\_AAC58382 1741  
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

ss.DNA59606 1801  
TTAGGTATACACACACACACACACACATACACACACACGACCAAATACTTACAC

\*\*\*\*\*

P\_AAC58382 1801  
TTAGGTATACACACACACACACACACATACACACACACGACCAAATACTTACAC

ss.DNA59606 1861  
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

\*\*\*\*\*

P\_AAC58382 1861  
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

ss.DNA59606 1921  
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

\*\*\*\*\*

P\_AAC58382 1921  
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

ss.DNA59606 1981  
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

\*\*\*\*\*

P\_AAC58382 1981  
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

ss.DNA59606 2041  
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

\*\*\*\*\*

P\_AAC58382 2041  
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

ss.DNA59606 2101  
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

\*\*\*\*\*

P\_AAC58382 2101  
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

ss.DNA59606 2161  
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

\*\*\*\*\*

P\_AAC58382 2161  
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

ss.DNA59606 2221  
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

BLAST RESULTS A-20

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*****
P_AAC58382 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATCCCAACAGCAGAAT

ss.DNA59606 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT

*****
P_AAC58382 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT

ss.DNA59606 2341
CCCTCAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

*****
P_AAC58382 2341
CCCTCAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

ss.DNA59606 2401
ATTATTGTGATTTCTTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

*****
P_AAC58382 2401
ATTATTGTGATTTCTTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

ss.DNA59606 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

*****
P_AAC58382 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

ss.DNA59606 2521
CTCAGCAATGTTTTCTCTTGTTTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

*****
P_AAC58382 2521
CTCAGCAATGTTTTCTCTTGTTTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

ss.DNA59606 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA
*****
P_AAC58382 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA

>5 P_AAD12762 Human phosphodiesterase-1 (HPDE-1) cDNA. cDNA, PAT 16-
OCT-2001 (2530 bp) [3 segs]
Score = 2314 (4587 bits), Expect = 0.0 [P_AAD12762, seg 1/3]
Identities = 2350/2361 (99%), Gaps = 2/2361 (0%), at 208,162-2568,2520,
Strand +/+

ss.DNA59606 208
GATTATCTTACACTGAACTGATCAAGTACTTTGAAAATGACTTCGAAATTTATCTTGGTG

*****
P_AAD12762 162
GATTATCTTACACTGAACTGATCAAGTACTTTGAAAATGACTTCGAAATTTATCTTGGTG

ss.DNA59606 268
TCCTTCATACTTGCTGCACTGAGTCTTTCAACCACCTTTTCTCTCCAACCTAGACCAGCAA
*****
P_AAD12762 222

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BLAST RESULTS A-21

```

TCCTTCATACTTGCTGCACTGAGTCTTTCAACCACCTTTTCTCTCCAACCAGACCAGCAA
ss.DNA59606    328
AAGGTTCTACTAGTTTCTTTTGATGGATTCCGTTGGGATTACTTATATAAAGTTCCAACG
*****
P_AAD12762    282
AAGGTTCTACTAGTTTCTTTTGATGGATTCCGTTGGGATTACTTATATAAAGTTCCAACG

ss.DNA59606    388
CCCCATTTTCATTATATTATGAAATATGGTGTTACGTGAAGCAAGTTACTAATGTTTTT
*****
P_AAD12762    342
CCCCATTTTCATTATATTATGAAATATGGTGTTACGTGAAGCAAGTTACTAATGTTTTT

ss.DNA59606    448
ATTACAAAACCTACCCTAACCATTATACTTTGGTAACTGGCCTCTTGCAGAGAATCAT
*****
P_AAD12762    402
ATTACAAAACCTACCCTAACCATTATACTTTGGTAACTGGCCTCTTGCAGAGAATCAT

ss.DNA59606    508
GGGATTGTTGCAAATGATATGTTTGATCCTATTCGGAACAAATCTTCTCCTTGATCAC
*****
P_AAD12762    462
GGGATTGTTGCAAATGATATGTTTGATCCTATTCGGAACAAATCTTCTCCTTGATCAC

ss.DNA59606    568
ATGAATATTTATGATTCCAAGTTTGGGAAGAAGCGACACCAATATGGATCACAACCAG
*****
P_AAD12762    522
ATGAATATTTATGATTCCAAGTTTGGGAAGAAGCGACACCAATATGGATCACAACCAG

ss.DNA59606    628
AGGGCAGGACATACTAGTGGTGAGCCATGTGCCCCGGAACAGATGTAAAATACATAAG
*****
P_AAD12762    582
AGGGCAGGACATACTAGTGGTGAGCCATGTGCCCCGGAACAGATGTAAAATACATAAG

ss.DNA59606    688
CGCTTTCCTACTCATTACATGCCTTACAATGAGTCAGTTTCATTTGAAGATAGAGTTGCC
*****
P_AAD12762    642
CGCTTTCCTACTCATTACATGCCTTACAATGAGTCAGTTTCATTTGAAGATAGAGTTGCC

ss.DNA59606    748
AAAATTGTTGAATGGTTTACGTCAAAAGAGCCCATAAATCTTGGTCTTCTCTATTGGGAA
*****
*****
P_AAD12762    702
AAAATTATTGAATGGTTTACGTCAAAAGAGCCCATAAATCTTGGTCTTCTCTATTGGGAA

ss.DNA59606    808
GACCCTGATGACATGGGCCACCATTGGGACCTGACAGTCCGCTCATGGGGCCTGTCATT

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BLAST RESULTS A-22

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*****
P_AAD12762      762
GACCTGATGACATGGGCCACCATTTGGGACCTGACAGTCCGCTCATGGGGCCTGTCATT

ss.DNA59606      868
TCAGATATTGACAAGAAGTTAGGATATCTCATACAAATGCTGAAAAGGCAAAGTTGTGG

*****
P_AAD12762      822
TCAGATATTGACAAGAAGTTAGGATATCTCATACAAATGCTGAAAAGGCAAAGTTGTGG

ss.DNA59606      928
AACACTCTGAACCTAATCATCACAAGTGATCATGGAATGACGCAGTGCTCTGAGGAAAGG

*****
P_AAD12762      882
AACACTCTGAACCTAATCATCACAAGTGATCATGGAATGACGCAGTGCTCTGAGGAAAGG

ss.DNA59606      988
TTAATAGAACTTGACCAGTACCTGGATAAAGACCACTATACCCTGATTGATCAATCTCCA

*****
P_AAD12762      942
TTAATAGAACTTGACCAGTACCTGGATAAAGACCACTATACCCTGATTGATCAATCTCCA

ss.DNA59606     1048
GTAGCAGCCATCTTGCCAAAAGAAGGTAAATTTGATGAAGTCTATGAAGCACTAACTCAC

*****
P_AAD12762     1002
GTAGCAGCCATCTTGCCAAAAGAAGGTAAATTTGATGAAGTCTATGAAGCACTAACTCAC

ss.DNA59606     1108
GCTCATCCTAATCTTACTGTTTACAAAAAGAAGACGTTCCAGAAAGGTGGCATTACAAA

*****
P_AAD12762     1062
GCTCATCCTAATCTTACTGTTTACAAAAAGAAGACGTTCCAGAAAGGTGGCATTACAAA

ss.DNA59606     1168
TACAACAGTCGAATTCACCAATCATAGCAGTGGCTGATGAAGGGTGGCACATTTTACAG

*****
P_AAD12762     1122
TACAACAGTCGAATTCACCAATCATAGCAGTGGCTGATGAAGGGTGGCACATTTTACAG

ss.DNA59606     1228
AATAAGTCAGATGACTTTCTGTTAGGCAACCACGGTTACGATAATGCGTTAGCAGATATG

*****
P_AAD12762     1182
AATAAGTCAGATGACTTTCTGTTAGGCAACCACGGTTACGATAATGCGTTAGCAGATATG

ss.DNA59606     1288
CATCCAATATTTTTAGCCCATGGTCCTGCCTTCAGAAAGAATTTCTCAAAAGAAGCCATG

*****
P_AAD12762     1242
CATCCAATATTTTTAGCCCATGGTCCTGCCTTCAGAAAGAATTTCTCAAAAGAAGCCATG

ss.DNA59606     1348

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BLAST RESULTS A-23

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AACTCCACAGATTTGTACCCACTACTATGCCACCTCCTCAATATCACTGCCATGCCACAC
*****
*****
P_AAD12762 1302
AACTCCACAGATTTGTACCCACTACTATGCCACCTCCTCAATATCACCGCCATGCCACAC

ss.DNA59606 1408
AATGGATCATTCTGGAATGTCCAGGATCTGCTCAATTCAGCAATGCCAAGGGTGGTCCCT

*****
P_AAD12762 1362
AATGGATCATTCTGGAATGTCCAGGATCTGCTCAATTCAGCAATGCCAAGGGTGGTCCCT

ss.DNA59606 1468
TATACACAGAGTACTATACTCCTCCCTGGTAGTGTTAAACCAGCAGAATATGACCAAGAG

*****
P_AAD12762 1422
TATACACAGAGTACTATACTCCTCCCTGGTAGTGTTAAACCAGCAGAATATGACCAAGAG

ss.DNA59606 1528
GGGTCATACCCTTATTTTCATAGGGGTCTCTCTTGGCAGCATTATAGTGATTGTATTTTTT

*****
P_AAD12762 1482
GGGTCATACCCTTATTTTCATAGGGGTCTCTCTTGGCAGCATTATAGTGATTGTATTTTTT

ss.DNA59606 1588
GTAATTTTCATTAAGCATTTAATTCACAGTCAAATACCTGCCTTACAAGATATGCATGCT

*****
P_AAD12762 1542
GTAATTTTCATTAAGCATTTAATTCACAGTCAAATACCTGCCTTACAAGATATGCATGCT

ss.DNA59606 1648
GAAATAGCTCAACCATTATTACAAGCCTAATGTTACTTTGAAGTGGATTTGCATATTGAA

*****
P_AAD12762 1602
GAAATAGCTCAACCATTATTACAAGCCTAATGTTACTTTGAAGTGGATTTGCATATTGAA

ss.DNA59606 1708
GTGGAGATTCATAATTATGTCAGTGTTTAAAGGTTTCAAATTCTGGGAAACCAGTTCCA

*****
P_AAD12762 1662
GTGGAGATTCATAATTATGTCAGTGTTTAAAGGTTTCAAATTCTGGGAAACCAGTTCCA

ss.DNA59606 1768
AACATCTGCAGAAACCATTAAGCAGTTACATATTTAGGTATACACACACACACACACACA
*****
*****
P_AAD12762 1722 AACATTTGCAGAAACCATTAAGCAGTTACATATTTAGGTAT--
ACACACACACACACACA

ss.DNA59606 1828
CACATACACACACACGGACCAAAATACTTACACCTGCAAAGGAATAAAGATGTGAGAGTA

*****
P_AAD12762 1780
CACATACACACACACGGACCAAAATACTTACACCTGCAAAGGAATAAAGATGTGAGAGTA

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BLAST RESULTS A-24



ss.DNA59606 1888  
TGTCTCCATTGTTCACTGTAGCATAGGGATAGATAAGATCCTGCTTTATTTGGACTTGGC

\*\*\*\*\*  
P\_AAD12762 1840  
TGTCTCCATTGTTCACTGTAGCATAGGGATAGATAAGATCCTGCTTTATTTGGACTTGGC

ss.DNA59606 1948  
GCAGATAATGTATATATTTAGCAACTTTGCACTATGTAAAGTACCTTATATATTGCACTT  
\*\*\*\*\*

\*\*\*\*\*  
P\_AAD12762 1900  
GCAGATAATGTATATATTTAGCAACTTTGCACTATGTAAAGTACCTTATGTATTGCACTT

ss.DNA59606 2008  
TAAATTTCTCTCCTGATGGGTACTTTAATTTGAAATGCACTTTATGGACAGTTATGTCTT  
\*\*\*\*\*

\*\*\*\*\*  
P\_AAD12762 1960  
TAAATTTCTCTCCTGATGGGTACTTTAATTTGAAATGCACTTTATGCACAGTTATGTCTT

ss.DNA59606 2068  
ATAACTTGATTGAAAATGACAACCTTTTTGCACCCATGTCACAGAATACTTGTTACGCATT

\*\*\*\*\*  
P\_AAD12762 2020  
ATAACTTGATTGAAAATGACAACCTTTTTGCACCCATGTCACAGAATACTTGTTACGCATT

ss.DNA59606 2128  
GTTCAAACCTGAAGGAAATTTCTAATAATCCCGAATAATGAACATAGAAATCTATCTCCAT  
\*\*\*\*\*

\*\*\*\*\*  
P\_AAD12762 2080  
GTTCAAACCTGAAGGAAATTTCTAATAATCCCGAATAATGAACGTAGAAATCTATCTCCAT

ss.DNA59606 2188  
AAATTGAGAGAAGAAGAAGGTGATAAGTGTTGAAAATTAAATGTGATAACCTTTGAACCT

\*\*\*\*\*  
P\_AAD12762 2140  
AAATTGAGAGAAGAAGAAGGTGATAAGTGTTGAAAATTAAATGTGATAACCTTTGAACCT

ss.DNA59606 2248  
TGAATTTTGGAGATGTATTCCCAACAGCAGAATGCAACTGTGGGCATTTCTTGTCTTATT

\*\*\*\*\*  
P\_AAD12762 2200  
TGAATTTTGGAGATGTATTCCCAACAGCAGAATGCAACTGTGGGCATTTCTTGTCTTATT

ss.DNA59606 2308  
TCTTTCCAGAGAACGTGGTTTTCATTTATTTTTCCCTCAAAGAGAGTCAAATACTGACA

\*\*\*\*\*  
P\_AAD12762 2260  
TCTTTCCAGAGAACGTGGTTTTCATTTATTTTTCCCTCAAAGAGAGTCAAATACTGACA

ss.DNA59606 2368  
GATTCGTTCTAAATATATTGTTTCTGTCATAAAATTATTGTGATTTCCTGATGAGTCATA

\*\*\*\*\*

BLAST RESULTS A-25

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P_AAD12762    2320
GATTTCGTTCTAAATATATTGTTTCTGTCATAAAATTATTGTGATTCCTGATGAGTCATA

ss.DNA59606    2428
TTACTGTGATTTTCATAATAATGAAGACACCATGAATATACTTTTCTTCTATATAGTTCA
*****
P_AAD12762    2380
TTACTGTGATTTTCATAATAATGAAGACACCATGAATATACTTTTTTCTATATAGTTCA

ss.DNA59606    2488
GCAATGGCCTGAATAGAAGCAACCAGGCACCATCTCAGCAATGTTTCTCTTGTTTGTA

*****
P_AAD12762    2440
GCAATGGCCTGAATAGAAGCAACCAGGCACCATCTCAGCAATGTTTCTCTTGTTTGTA

ss.DNA59606    2548 TTATTGCTCCTTTGAAAATT
*****
P_AAD12762    2500 TTATTGCTCCTTTGAGAATT

Score = 146 (289 bits), Expect = 2e-75 [P_AAD12762, seg 2/3]
Identities = 146/146 (100%), at 1,17-146,162, Strand +/-

ss.DNA59606    1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCCTCCAGTCACCCTCCCGCCGT

*****
P_AAD12762    17
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCCTCCAGTCACCCTCCCGCCGT

ss.DNA59606    61
TACCCGCGGCGCGCCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

*****
P_AAD12762    77
TACCCGCGGCGCGCCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606    121 TACGGACTGAACGGATCGCTGCGAGG
*****
P_AAD12762    137 TACGGACTGAACGGATCGCTGCGAGG

>6 AX206904 Sequence 4 from Patent WO0155358. DNA, PAT 30-AUG-2001
(2530 bp) [2 segs]
Score = 2314 (4587 bits), Expect = 0.0 [AX206904, seg 1/2]
Identities = 2350/2361 (99%), Gaps = 2/2361 (0%), at 208,162-2568,2520,
Strand +/-

ss.DNA59606    208
GATTATCTTACACTGAAGTCAAGTACTTTGAAAATGACTTCGAAATTTATCTTGGTG

*****
AX206904    162
GATTATCTTACACTGAAGTCAAGTACTTTGAAAATGACTTCGAAATTTATCTTGGTG

ss.DNA59606    268
TCCTTCATACTTGCTGCACTGAGTCTTTCAACCACCTTTTCTCTCCAAGTAGACCAGCAA
*****
*****
AX206904    222

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BLAST RESULTS A-26

TCCTTCATACTTGCTGCACTGAGTCTTTCAACCACCTTTTCTCTCCAACCAGACCAGCAA

ss.DNA59606 328  
AAGGTTCTACTAGTTTCTTTTGATGGATTCCGTTGGGATTACTTATATAAAGTTCCAACG

\*\*\*\*\*

AX206904 282  
AAGGTTCTACTAGTTTCTTTTGATGGATTCCGTTGGGATTACTTATATAAAGTTCCAACG

ss.DNA59606 388  
CCCCATTTTCATTATATTATGAAATATGGTGTTCACGTGAAGCAAGTTACTAATGTTTTT

\*\*\*\*\*

AX206904 342  
CCCCATTTTCATTATATTATGAAATATGGTGTTCACGTGAAGCAAGTTACTAATGTTTTT

ss.DNA59606 448  
ATTACAAAACCTACCCTAACCATTTACTTTGGTAACTGGCCTCTTTGCAGAGAATCAT

\*\*\*\*\*

AX206904 402  
ATTACAAAACCTACCCTAACCATTTACTTTGGTAACTGGCCTCTTTGCAGAGAATCAT

ss.DNA59606 508  
GGGATTGTTGCAAATGATATGTTTGATCCTATTTCGGAACAAATCTTCTCCTTGGATCAC

\*\*\*\*\*

AX206904 462  
GGGATTGTTGCAAATGATATGTTTGATCCTATTTCGGAACAAATCTTCTCCTTGGATCAC

ss.DNA59606 568  
ATGAATATTTATGATTCCAAGTTTGGGAAGAAGCGACACCAATATGGATCACAAACCAG

\*\*\*\*\*

AX206904 522  
ATGAATATTTATGATTCCAAGTTTGGGAAGAAGCGACACCAATATGGATCACAAACCAG

ss.DNA59606 628  
AGGGCAGGACATACTAGTGGTGCAGCCATGTGGCCCGGAACAGATGTAAAAATACATAAG

\*\*\*\*\*

AX206904 582  
AGGGCAGGACATACTAGTGGTGCAGCCATGTGGCCCGGAACAGATGTAAAAATACATAAG

ss.DNA59606 688  
CGCTTTCCTACTCATTACATGCCTTACAATGAGTCAGTTTCATTTGAAGATAGAGTTGCC

\*\*\*\*\*

AX206904 642  
CGCTTTCCTACTCATTACATGCCTTACAATGAGTCAGTTTCATTTGAAGATAGAGTTGCC

ss.DNA59606 748  
AAAATTGTTGAATGGTTTACGTCAAAAGAGCCCATAAATCTTGGTCTTCTCTATTGGGAA  
\*\*\*\*\*

\*\*\*\*\*

AX206904 702  
AAAATTATTGAATGGTTTACGTCAAAAGAGCCCATAAATCTTGGTCTTCTCTATTGGGAA

ss.DNA59606 808  
GACCTGATGACATGGGCCACCATTTGGGACCTGACAGTCCGCTCATGGGGCCTGTCATT

BLAST RESULTS A-27

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*****
AX206904      762
GACCCTGATGACATGGGCCACCATTTGGGACCTGACAGTCCGCTCATGGGGCCTGTCATT

ss.DNA59606    868
TCAGATATTGACAAGAAGTTAGGATATCTCATACAAATGCTGAAAAAGGCAAAGTTGTGG

*****
AX206904      822
TCAGATATTGACAAGAAGTTAGGATATCTCATACAAATGCTGAAAAAGGCAAAGTTGTGG

ss.DNA59606    928
AACACTCTGAACCTAATCATCACAAAGTGATCATGGAATGACGCAGTGCTCTGAGGAAAGG

*****
AX206904      882
AACACTCTGAACCTAATCATCACAAAGTGATCATGGAATGACGCAGTGCTCTGAGGAAAGG

ss.DNA59606    988
TTAATAGAACTTGACCAGTACCTGGATAAAGACCACTATACCCTGATTGATCAATCTCCA

*****
AX206904      942
TTAATAGAACTTGACCAGTACCTGGATAAAGACCACTATACCCTGATTGATCAATCTCCA

ss.DNA59606   1048
GTAGCAGCCATCTTGCCAAAAGAAGGTAAATTTGATGAAGTCTATGAAGCACTAACTCAC

*****
AX206904     1002
GTAGCAGCCATCTTGCCAAAAGAAGGTAAATTTGATGAAGTCTATGAAGCACTAACTCAC

ss.DNA59606   1108
GCTCATCCTAATCTTACTGTTTACAAAAAAGAAGACGTTCCAGAAAGGTGGCATTACAAA

*****
AX206904     1062
GCTCATCCTAATCTTACTGTTTACAAAAAAGAAGACGTTCCAGAAAGGTGGCATTACAAA

ss.DNA59606   1168
TACAACAGTCGAATTCAACCAATCATAGCAGTGGCTGATGAAGGGTGGCACATTTTACAG

*****
AX206904     1122
TACAACAGTCGAATTCAACCAATCATAGCAGTGGCTGATGAAGGGTGGCACATTTTACAG

ss.DNA59606   1228
AATAAGTCAGATGACTTTCTGTTAGGCAACCACGGTTACGATAATGCGTTAGCAGATATG

*****
AX206904     1182
AATAAGTCAGATGACTTTCTGTTAGGCAACCACGGTTACGATAATGCGTTAGCAGATATG

ss.DNA59606   1288
CATCCAATATTTTTAGCCCATGGTCCTGCCTTCAGAAAGAATTTCTCAAAGAAGCCATG

*****
AX206904     1242
CATCCAATATTTTTAGCCCATGGTCCTGCCTTCAGAAAGAATTTCTCAAAGAAGCCATG

ss.DNA59606   1348

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BLAST RESULTS A-20

AACTCCACAGATTTGTACCCACTACTATGCCACCTCCTCAATATCACTGCCATGCCACAC  
 \*\*\*\*\*

\*\*\*\*\*  
 AX206904 1302  
 AACTCCACAGATTTGTACCCACTACTATGCCACCTCCTCAATATCACCGCCATGCCACAC

ss.DNA59606 1408  
 AATGGATCATTCTGGAATGTCCAGGATCTGCTCAATTCAGCAATGCCAAGGGTGGTCCCT

\*\*\*\*\*  
 AX206904 1362  
 AATGGATCATTCTGGAATGTCCAGGATCTGCTCAATTCAGCAATGCCAAGGGTGGTCCCT

ss.DNA59606 1468  
 TATACACAGAGTACTATACTCCTCCCTGGTAGTGTTAAACCAGCAGAATATGACCAAGAG

\*\*\*\*\*  
 AX206904 1422  
 TATACACAGAGTACTATACTCCTCCCTGGTAGTGTTAAACCAGCAGAATATGACCAAGAG

ss.DNA59606 1528  
 GGGTCATACCCTTATTTTCATAGGGGTCTCTCTTGGCAGCATTATAGTGATTGTATTTTTT

\*\*\*\*\*  
 AX206904 1482  
 GGGTCATACCCTTATTTTCATAGGGGTCTCTCTTGGCAGCATTATAGTGATTGTATTTTTT

ss.DNA59606 1588  
 GTAATTTTCATTAAGCATTTAATTCACAGTCAAATACCTGCCTTACAAGATATGCATGCT

\*\*\*\*\*  
 AX206904 1542  
 GTAATTTTCATTAAGCATTTAATTCACAGTCAAATACCTGCCTTACAAGATATGCATGCT

ss.DNA59606 1648  
 GAAATAGCTCAACCATTATTACAAGCCTAATGTTACTTTGAAGTGGATTTCATATTGAA

\*\*\*\*\*  
 AX206904 1602  
 GAAATAGCTCAACCATTATTACAAGCCTAATGTTACTTTGAAGTGGATTTCATATTGAA

ss.DNA59606 1708  
 GTGGAGATTCCATAATTATGTCAGTGTTTAAAGGTTTCAAATTCTGGGAAACCAGTTCCA

\*\*\*\*\*  
 AX206904 1662  
 GTGGAGATTCCATAATTATGTCAGTGTTTAAAGGTTTCAAATTCTGGGAAACCAGTTCCA

ss.DNA59606 1768  
 AACATCTGCAGAAACCATTAAAGCAGTTACATATTTAGGTATACACACACACACACACA  
 \*\*\*\*\*

\*\*\*\*\*  
 AX206904 1722 AACATTTGCAGAAACCATTAAAGCAGTTACATATTTAGGTAT--  
 ACACACACACACACACA

ss.DNA59606 1828  
 CACATACACACACACGGACCAAATACTTACACCTGCAAAGGAATAAAGATGTGAGAGTA

\*\*\*\*\*  
 AX206904 1780  
 CACATACACACACACGGACCAAATACTTACACCTGCAAAGGAATAAAGATGTGAGAGTA

BLAST RESULTS A-29

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ss.DNA59606 1888
TGTCTCCATTGTTCACTGTAGCATAGGGATAGATAAGATCCTGCTTTATTTGGACTTGGC
*****
AX206904 1840
TGTCTCCATTGTTCACTGTAGCATAGGGATAGATAAGATCCTGCTTTATTTGGACTTGGC

ss.DNA59606 1948
GCAGATAATGTATATATTTAGCAACTTTGCACTATGTAAAGTACCTTATATATTGCACTT
*****
*****
AX206904 1900
GCAGATAATGTATATATTTAGCAACTTTGCACTATGTAAAGTACCTTATGTATTGCACTT

ss.DNA59606 2008
TAAATTTCTCTCCTGATGGGTACTTTAATTTGAAATGCACTTTATGGACAGTTATGTCTT
*****
*****
AX206904 1960
TAAATTTCTCTCCTGATGGGTACTTTAATTTGAAATGCACTTTATGCACAGTTATGTCTT

ss.DNA59606 2068
ATAACTTGATTGAAAAATGACAACTTTTTGCACCCATGTCACAGAATACTTGTTACGCATT
*****
AX206904 2020
ATAACTTGATTGAAAAATGACAACTTTTTGCACCCATGTCACAGAATACTTGTTACGCATT

ss.DNA59606 2128
GTTCAAACCTGAAGGAAATTTCTAATAATCCCGAATAATGAACATAGAAATCTATCTCCAT
*****
*****
AX206904 2080
GTTCAAACCTGAAGGAAATTTCTAATAATCCCGAATAATGAACGTAGAAATCTATCTCCAT

ss.DNA59606 2188
AAATTGAGAGAAGAAGAAGGTGATAAGTGTTGAAAATTAAATGTGATAACCTTTGAACCT
*****
AX206904 2140
AAATTGAGAGAAGAAGAAGGTGATAAGTGTTGAAAATTAAATGTGATAACCTTTGAACCT

ss.DNA59606 2248
TGAATTTTGGAGATGTATTCCCAACAGCAGAATGCAACTGTGGGCATTTCTTGTCTTATT
*****
AX206904 2200
TGAATTTTGGAGATGTATTCCCAACAGCAGAATGCAACTGTGGGCATTTCTTGTCTTATT

ss.DNA59606 2308
TCTTTCCAGAGAACGTGGTTTTCATTTATTTTCCCTCAAAGAGAGTCAAATACTGACA
*****
AX206904 2260
TCTTTCCAGAGAACGTGGTTTTCATTTATTTTCCCTCAAAGAGAGTCAAATACTGACA

ss.DNA59606 2368
GATTCGTTCTAAATATATTGTTTCTGTCATAAAATTATTGTGATTTCCTGATGAGTCATA
*****

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BLAST RESULTS A-30

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AX206904      2320
GATTCGTTCTAAATATATTGTTTCTGTCATAAAATTATTGTGATTTCTGATGAGTCATA

ss.DNA59606   2428
TTACTGTGATTTTCATAATAATGAAGACACCATGAATATACTTTTCTTCTATATAGTTCA
*****
*****
AX206904      2380
TTACTGTGATTTTCATAATAATGAAGACACCATGAATATACTTTTTTCTATATAGTTCA

ss.DNA59606   2488
GCAATGGCCTGAATAGAAGCAACCAGGCACCATCTCAGCAATGTTTTCTTGTGTTGTAA
*****
AX206904      2440
GCAATGGCCTGAATAGAAGCAACCAGGCACCATCTCAGCAATGTTTTCTTGTGTTGTAA

ss.DNA59606   2548 TTATTTGCTCCTTTGAAAATT
*****
AX206904      2500 TTATTTGCTCCTTTGAGAATT

Score = 146 (289 bits), Expect = 5e-75 [AX206904, seg 2/2]
Identities = 146/146 (100%), at 1,17-146,162, Strand +/-

ss.DNA59606   1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCCTCCAGTCACCCCTCCCGCCGT
*****
AX206904      17
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCCTCCAGTCACCCCTCCCGCCGT

ss.DNA59606   61
TACCCGCGGCGCGCCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA
*****
AX206904      77
TACCCGCGGCGCGCCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606   121 TACGGA CTGAACGGATCGCTGCGAGG
*****
AX206904      137 TACGGA CTGAACGGATCGCTGCGAGG

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BLAST RESULTS A-31